

Samfly, 1885;

ALWAYS BRING THIS BOOK.



Mrs. Dyer

IN ACCOUNT WITH

R. A. Schouten

CHOICE BEEF

Mutton, Lamb, Veal, Pork,

HAMS, BACON, CORNED BEEF,

TONGUES, &c.

Poultry and Game

IN SEASON.

Goods Delivered promptly, Free of Expense.

omit 4P

X

4P

8 ft up feet under white pine Dixfield
me Sept 7, wallowing. Green; hd. a pos
rim of anal plate brownish testaceous
Cth a little greenish. Antennae &
anal things & the feet black tipped
green, 4-annulate, shining; a broad
shaded pale yellowish sd band
below skin; a narrow white s-v
line along undulating ridge; a
white V-mark composed of converging
sd lines on 13; a white band on
center corresponding exactly in
appearance to sd band above.
Hd. 2.4 mm

X

OUT

4 Q

proth. abd feet 6-10
five long slender
concolorous visible
medio-ventral scent
glands. Odor not nice.

Little slender (Nematus) edge eaten on
alder, Webb Pond, Me., Sept 5, 1894.

Hd 1.4 (shld 1.0) shiny brown, reddish, eye black
on diffuse spot. Body indistinctly annulate
feet 6-11 but small on 11, the feet moderate
large  long slender; green of
a dark tint, the apicircular area on each
seg faintly discolored, yellowish. Dorsal
area completely shaded in black, slight
metallic (brassy). Double S-V folds, abd.
feet outwardly and a row of medio-
ventral dashes black. Sometimes a little
black stigmatal spot. The feet pale,
marked with black above on joints
& claws. Anal plate black; setae
minute, dark.

Hd 1.0 shiny black. Body shiny green,
a little paler than upper side of
alder leaf; dorsal shading scarcely

X

.35

.5

.7

1.0

1.4

.7

1.0

1.4

indicated except as a dusky sd.
shade on thorax, but anal plate
black. S-V folds black, forming two
black spots per seg. the upper and, the
lower part. The feet black at base and
tip. Median ventral black spot precox
but abd. feet concolorous with body.
Not opaque, tracheal line visible. Setae
in 2 annulets. S-V region appears a little
more yellowish than d. from absence of foot
Hd .7 as above but less green more reddish
and yellowish. all shiny S-V black
spots distinct, anal plate black,
contrasting with a small spot below
anus meeting it. Tracheae of last
seg. white against the black grass
within.

Imago Apr 23 1893 Nematus corylus = 0

4R

Solitary on blackberry, Plattsburgh N.Y. Sept
11, 1894. Curls spirally when disturbed
feet 6-13. Hd black for all space above
ocellus, the outline concave before,
a slight bloom; lower half nearly white
mouth brown; w. mm Red waxy
whitish, the S-V foldings faintly yellowish
tinged; segs 6 annulated, the region above
lateral with bluish white bloom and
the following select black marks; a row
of little round spots ^{annulets 1, 3, 6} 3 per seg; a broad
black S-L band broken into transverse
patches on the annulets and in the center
of each seg. completely broken and divided
into a double row of spots (annulets 3-5)
Below the black nearly white, which
stops sharply at lateral (line).

Molt Sept 14 to 15 ^{leaden} dorsum, ^{granoffia} color
with slight remain of the black

marks in a few crumbly dots, most
in a lateral line; sv area ochraceous
tinged, all shiny. Hd pale shiny
whitish, eye black. leaden on upper $\frac{1}{2}$.

X - INDEX -

Footless - a web.

✓ On back - head green - - - - - 4K

✓ Under pine - head brownish - - - - - 4P

Feet 6-13

Flat on venter

✓ Shiny slugs - - - - - 4A

Not shiny

✓ Head black - - - - - 4E

✓ Mouth yellowish - - - - - 4D

✓ Hd brownish, a □ black patch 4F

Or curled spirally.

✓ Head mostly black - - - - - 4R

✓ Head whitish, a black shade
on apex & white bloom - - - - - 4I

✓ Head with T shaped patch - - - - - 4M

✓ Head without black except eye.

✓ Ocherous, no marks - - - - - 4C

✓ Pale green, s-d. fat - - - - - 4G

✓ D. greenish, s-v yellow - - - - - 4O

Feet 6-11 ± 13

Sitting on venter

✓ Smooth, green - - - - - 4J

✓ Pilose, whitish green - - - - - 4L

✓ Uniform ground plan green - - - - - 4B

✓ Colubous; all feet small - - - - - 4N

Edge eater - whorlless.

✓ Vires brown - - - - - 4H

✓ Hd solid brown, 5 long

✓ Ventral scent-glands - - - - - 4Q

X GENERAL INDEX

(Including the first two

TO SPRING 1895
seasons' collecting)

INDEX	LETTER	BRED	NAME	AUTHORITY
Footlers, spinning a web				
Head black, body orange tinted	Q			
Head testaceous: on hazel	3U	Apr 1895	<i>Lyda ochreata</i>	H.S.D.
Head green: on white birch	4K			
Head testaceous: on pine?	4P			
Leaf miners				
On alder	R	July '93	<i>Fenusa varipes</i>	H.S.D., A.D.M.C.G.
On oak	2M	July '95	" <i>curta</i>	H.S.D.
Colored to resemble bird droppings not so colored	3C			
Feet 6-12, 13.				
Flat on venter: shags.				
Shiny, sticky shags				
Large blackish (Prunus)	W	Aug 1893	<i>Eriocampa cerasi</i>	H.S.D.
Head black; the feet blackish				
Body pale (Oak)	J	July 1893	^{<i>Caliva obsoleta</i>} <i>Monostegia quercus alba</i>	H.S.D.
Body orange ant (Oak)	2I	1894	<i>Eriocampa fasciata</i>	A.D.M.C.G.
Head pale; orange ant.	T	Aug 1893	<i>Monostegia quercus coccinea</i>	Dyar
Like J except head	JA			
very similar (Oak)	X			
		injured	<i>Monostegia quercus alba</i>	H.S.D. (with M.C.G.)

X

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LETTER

BRED

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On wild cherry

3S

On poplar

4A

Not shiny and sticky, smooth

Head more or less black

On pine

2H

On Solomon's seal

4D

On ash

4E

On white birch

4F

Head red; on pine

2A

Head pale

On rose

G

On alder; white bloom

3L

On Pteris; wide by day

3R

With rough points

Head round

3K

Head pointed

3Y

With Y-shaped processes

On black oak

E

On raspberry

3T

On the edge or curled spirally

May 1895 Monophadnus laida HSD

Apr 1895 Taxonus multicolor HSD

Apr 1894 Lophyrus lecontei adm. (?)

Apr. 1894 Monostegia roseae HSD

Apr. 1895 Poecilosoma inferentia HSD

Apr 1895 Strongylozoster 3 spp.

Apr 1895 Olenecampa apricae n. sp.

May 1895 Strongylozoster pinguis HSD. Adm. (?)

Apr 1894 Perichista enaspinata mac G. TYPE
~~Olenecampa bipartita?~~ HSD

Apr 1895 Monophadnus rubi HSD

X

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(On edge or spirally)

- ✓ Olivaceous blackish: perch F
 Greenish ochre, black sd line L
 White woolly, on Cornus 2E
 ✓ Blackish gray, on Viola 2N
 ✓ Ochreous, no marks on grass 4C
 Gray, orange spots. honeysuckle 2F
 ✓ No marks, white bloom " " 4I
 Green, white sd. line Pteris B
 Green, minute white dots Rosa H
 Same head 2mm; white birch 4G
 On blackberry etc (Rubus)
 a lateral smoky black line 4D
 also dorsal spottings 4R
 Dorsum largely blackish 4M
 Large, greenish on willow alder etc.
 Head mature 3.2mm 3G
 Head mature 3.6 " 3P
 Head mature 4.5 " 3W

Feet on 6-11, 13

Sitting on venter, or curled

Aug 1893

Hemichura americana

^{marcott} H&D adm. 9.

July 1894

Harpiophorus varians

A.D.M.C. 9.

Apr 1894

Emphytus canadensis

H&D. adm. 9.

May 1893

Strongylogaster

^{pacificus} H&D

July 1893

Emphytus cinctipes

H&D

May 1895

Tenthredo cressoni

adm. 9

May 1895

Strongylogaster apicalis

H&D

Apr 1895

Trichosoma triangulum

H&D

X

INDEX	LETTER	BRED	NAME	AUTHORITY
With stiff white hairs				
Anal plate black	N			
Anal plate yellow	3Z	1894	<i>Inchiscampus gregarius</i> n.s.	Marlatt
With fulse covering				
Dorsum olivaceous blackish	3N	1894	<i>Cladius</i> ^{<i>Prionophorus</i>} (?) <i>solitarius</i> n.s.	Marlatt
White ad-d. & stig. lines	4L			
Smooth, green				
On sugar plum	M	Apr. 1894	<i>Nematus thoracicus</i>	H.S. Marlatt
On white birch	4J	Apr 1895	<i>Nematus unicolor</i>	Marlatt
On poplar or willow				
Curls when at rest	2G			
Bred in rotten wood	4B	= 3F g.v.		
Colorless, abd. feet small	4N	1894	<i>Acordulaceca dorsalis</i> A.D. McE.	
Edge eaters, often whacking				
Head white; curls.	2D	Apr 1894	<i>Cimbex americana</i>	H.S.
Head green or greenish				
Hd. partly black; anal plates	A	June 1891	<i>Schizocerus fumipennis</i> Dyar	
No tubercles present				
Body with fat patches	3V	1894	<i>Nematus pinguidorsum</i> Dyar	
Body with lines				
Long, straight dusky	3D			

X

INDEX	LETTER	BRED	NAME	AUTHORITY
Distinct white s-d	3 F			
D. vessel a double line	3 M	July 1894	<i>Pristiphora tibialis</i>	Marlatt
Body without lines				
On locust	U	(damaged)	<i>Nematus arimulus</i>	Marlatt
On sheep laurel	3 I			
On <i>Spiraea</i>	3 O	(damaged)	<i>Nematus?</i>	
On white birch	3 E	Apr 1895	<i>Nematus lateralis</i>	Marlatt(?)
On Linden	3 J			
On poplar and willow				
Black line m hd	3 B	June 1894	<i>Nematus mendicus</i>	Marlatt
No such line	3 H	June 1894	<i>Nematus dorsivittatus</i>	Marlatt
* Tubercles present	2 L	Apr. 1895	<i>Hylotoma McLeayi</i>	H.D. Marlatt
Head brownish				
* Black tubercles present	2 C	= 2 L q.v.		
Tubercles obsolete				
Solitary, no glands?	2 J	Apr 1894	<i>Nematus Marlatti</i>	H.D.
Gregarious, ventral glands	4 Q	Apr 1895	<i>Nematus corylus</i>	Marlatt = 0
Head vinous blackish				
Gregarious on alder	3 Q	July 1894	<i>Nematus luteitergum</i>	Marlatt
Solitary on white birch	4 H	Aug 1894	<i>Nematus latifasciatus</i>	" "
Head black				

X

INDEX

Black tubercles absent
 With lateral yellow spots
 Green 2K
 Blackish 2P
 Olivaceous, pale s-v. I
 Honey yellow and black K
 Honey brown & leaden black O

Black tubercles present
 These minute dorsally
 Green tubercles black D
 Rows of 2-d black spots P
 of nearly equal size
 Body blue green C
 * Greenish yellow 2O
 * Body yellow S

Feet on 6-10, 13. [11-12 last pair very small]
 * 9 an per-stig. black tubercles
 Head reddish, on birch V
 Tubercles pale, on oak 2B
 Tub. blue-black on Pyrus Y
 A single large sd. tubercle Z

LETTER

BRED

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Apr. 1894 *Nematus Hudsonii* MS Dyer ^{MacLatt}
 Apr. 1894 *Nematus ventralis* MacLatt
Nematus Erichsonii
 Aug 1893 *Craesus latitarsus* H&D MacLatt
 July 1893 *Nematus conyers* H&D MacLatt
 Apr 1894 *Nematus ^{brunneus} monochroma* ^{MacLatt} H&D
 July 1893 *Nematus s-odoratus* Dyer MacLatt
 June 1893 *Nematus ribesii*
 Apr 1894 *Hylotoma Mcaleayi* H&D
 May 1895 *H. scapularis* & *H. caerulea*!
 June 1895 *Hylotoma pectoralis*? H&D

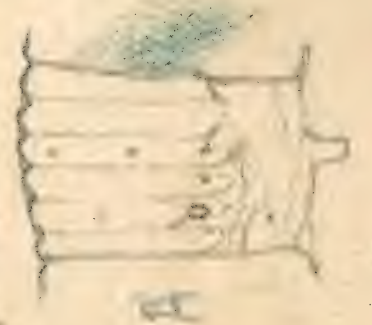
... area green, ventral below distinct ...
 ... more distinct than ...
 ...
 Hd. 9 (Hd. 8) brown, a darker line in center eye ...
 Red, annulate slightly shiny, annulate, tubercles, all ...
 translucent pinkish yellow, al. canal a green ...
 5A X
 Little sp. on Symplocarpus racemosa ...
 from C.V. Piper, Pullman, Washington ...
 (Hd. 6) ...
 Flat on venter feet 6-13. Hd. 6 pale ...
 brown with faint blackish tinge, eye ...
 on black spot. Body of green, even under ...
 this a little enlarged; legs 6? - annulate ...
 not shiny, pale translucent whitish ...
 green green by food; the feet faint ...
 blackish tubercles line evident a ...
 sd a lateral row of what look like ...
 minute tufts* contrasting pale against ...
 green food. The feet dusky tinged ...
 *under 1/2 inch they are short double ...
 points - 17) Hd. 8 same dark shade as ...
 confined to clippers apex "tufts" sparse ...
 on annulets 2 & 4 (?) rather prominent ...
 ...
 May 15 (Hd. 75) Hd. 1.1 all pale ...
 ...
 Hd. 11 with several points in ...
 on 8th fold, and higher than ...

... for ground May 27 (Hd. 1.3) ...
 ...
 ...

vi on the segments with feet.
 Head black, the sutures pale; labrum ...
 white. Body with the dorsum broadly ...
 black, containing a narrow white dorsal ...
 line, a broader pale orange ad-dorsal ...
 line, darker orange at the slightly ele- ...
 vated tubercles i and ii, especially on joints ...
 3, 12 and 13; a narrow white subdorsal ...
 line. Lateral region colorless; a broad white ...
 lateral line above tubercle iii, edging the ...
 black dorsum; a narrow white stigmatal ...
 and a subventral line. Spinacles yellowish; ...
 setae pale. Anal plate whitish, slightly ...
 marked with black. Skin finely transparent ...
 granular, the markings appearing as if below

...
 ...
 ...

5B May 18 1896 On rock, N.Y.
 Egg @ hole and swelling on dorsal side, 1 mm diam.
 Hatched by a round hole in top. Solitary, under under
 epidermis.
 Stage I Hatched blackish brown. Body widest thorax, tapering
 anal end rounded, rather flattened. Not shiny, whitish
 first showing faintly green. Sinks round holes in
 under side. Smooth, mostly bumpy, no setae. The feet
 visible from above. Sit on ventral.
 May 22 Hatched pale brown, eye in black spot. Body as before
 with white spot green. Sits on ventral prolegs. L 4 mm
 mostly annulate
 molt May 24 Hatched 7 whitish, dark abed in S, up from black
 eye. Body ground glass whitish, ventral 6 annulate, ab.
 greenish near from foot feet 6-12, 13- L 7 mm
 May 24 Hatched 1.1 whitish, a headen shade on vertex, a brownish
 black green a brownish S-V, whitish, 6 annulate with
 white dots on 2nd and 4th annulets. No very shade. Just
 like 5B. Shown over a thin board.



larva; processes have bifid in highest up
 with several points in a patch
 on S-V folds, and higher than foot.

Stage II for ground May 23 (Hatched 1.3) Hatched shiny pale
 upper a clippers from reticulate and with fine
 pale lines. Body shiny, air points 6-annulate green
 to spiracles, greenish navy below, marked with
 subcosta high in folds. Spiracles black. This
 feet clear, eye on 5B. Black spot. Hatched 1.3
 Stage III May 31 1895 - (Bored in wood)
 Flat on ventral or curled spirally on
 back of leaf of yellowish dark egg the 1st
 May 18 1895 - Hatched whitish upper 1/2
 except foot; a brown line over a lateral edge
 gray, eye on black spot, w. 1.2 mm Body
 6-annulate, smooth, not shiny.
 D. area above of back except 8-13, leaf
 green, a dorsal a lateral gray shade
 the latter bounding green area, S-V
 ventral whitish, 13 dorsally very pale
 green, contrasting. This feet annulate
 pale, abd 6-13; antennae distinct
 below eye, pale. Minute white points
 on 2nd & 4th annulets, ant 1 just 2 above
 aty, hind, then 2 just below it, much
 only on S-V folds. Rests much curled

Stage IV Last stage
 Hatched Hatched same, all pale emerald
 Sh (Hatched 1.05) Hatched 1.4 ± O larva than 2. Male the upper half
 shown, body spotted on a eye black. Body translucent, pale
 green. Lateral line black, each side which the white
 ant body is in dorsal midline eye in dark at anal. No
 distinct. On 2nd 4th annulets 3d & last dark a bifid 3rd point, a
 cluster of 3 tiny feet & then on 3rd folds, much brown. Ant. about
 1.5 mm. Body 1.5 mm. 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21th 22th 23th 24th 25th 26th 27th 28th 29th 30th 31th 32th 33th 34th 35th 36th 37th 38th 39th 40th 41th 42th 43th 44th 45th 46th 47th 48th 49th 50th 51th 52th 53th 54th 55th 56th 57th 58th 59th 60th 61th 62th 63th 64th 65th 66th 67th 68th 69th 70th 71th 72th 73th 74th 75th 76th 77th 78th 79th 80th 81th 82th 83th 84th 85th 86th 87th 88th 89th 90th 91th 92th 93th 94th 95th 96th 97th 98th 99th 100th 101th 102th 103th 104th 105th 106th 107th 108th 109th 110th 111th 112th 113th 114th 115th 116th 117th 118th 119th 120th 121th 122th 123th 124th 125th 126th 127th 128th 129th 130th 131th 132th 133th 134th 135th 136th 137th 138th 139th 140th 141th 142th 143th 144th 145th 146th 147th 148th 149th 150th 151th 152th 153th 154th 155th 156th 157th 158th 159th 160th 161th 162th 163th 164th 165th 166th 167th 168th 169th 170th 171th 172th 173th 174th 175th 176th 177th 178th 179th 180th 181th 182th 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681th 682th 683th 684th 685th 686th 687th 688th 689th 690th 691th 692th 693th 694th 695th 696th 697th 698th 699th 700th 701th 702th 703th 704th 705th 706th 707th 708th 709th 710th 711th 712th 713th 714th 715th 716th 717th 718th 719th 720th 721th 722th 723th 724th 725th 726th 727th 728th 729th 730th 731th 732th 733th 734th 735th 736th 737th 738th 739th 740th 741th 742th 743th 744th 745th 746th 747th 748th 749th 750th 751th 752th 753th 754th 755th 756th 757th 758th 759th 760th 761th 762th 763th 764th 765th 766th 767th 768th 769th 770th 771th 772th 773th 774th 775th 776th 777th 778th 779th 780th 781th 782th 783th 784th 785th 786th 787th 788th 789th 790th 791th 792th 793th 794th 795th 796th 797th 798th 799th 800th 801th 802th 803th 804th 805th 806th 807th 808th 809th 810th 811th 812th 813th 814th 815th 816th 817th 818th 819th 820th 821th 822th 823th 824th 825th 826th 827th 828th 829th 830th 831th 832th 833th 834th 835th 836th 837th 838th 839th 840th 841th 842th 843th 844th 845th 846th 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upper 3/4 gold faintly yellowish stained by
blow; lower black from a near carbon-
aceous sand. Also has 2.2. Rock is leaden
black with blow out of

Greenish red shiny black with a few
N.E. of 2 leads black but one is a small one. A series of large lateral patches, the set on 2, 5.
Hides black throughout (in brown) a series of large lateral patches, the set on 2, 5.
12. Corolla spiracle. The feet clear at 5. 1st orange lead, add feet clear at 5.
James Arnold
X 5C
lateral patches creamy yellow, less as
head as annulet 2 and the foot 1/2 of annulet 1.

Cat on venter on ^{cephalanthus occidentalis} button ball bush (?) at
 Van Cortlandt Park station June 2, 1895
 Hd shiny black with a faint white bloom
 ant. short pointed, w. 1.5 mm. Thor. feet
 large, slender, div. 1st, abd small
 6-13; 6 annulate, bright black points
 on 2^d 4th annulate, others on 3^d annulate
 they can sv fold. Body pruinose black
 gray from thin white bloom on venter
 with leaden ground; a series of
 diffuse quadrate black patches
 laterally, 2 per seg. on 12th, 1 on 11th
 ann. Upper sv fold faint tinge
 with yellow, lower black. Feet
 & venter whitish, thor. feet largely black,
 black markings become faint at ends. Food
 in all canal gives a region a dense black
 moldy & Hd 2.0. Hd & thor. is lateral black
 leaden gray, below white but lower sv fold
 feet & back of antenae & fine black points on
 2 & 4 annulate black; lat. black spots between
 12 and 4-5 annulate. The feet broad &
 been slightly black marked.

5C Aphid 1.0 hd pale, blackish over vertex, eyes
black spot, black over Δ mouth brown, bloom.
Body pale, slightly greenish, no anaspis except
black spot on feet, pale black

5C (1895)

9.1.0 1.2 1.6 2.2 2.2

75

770

139

1650

718

1825

1155

0 12375

75-

6185

865

0927

25-

46390

6494'6

○ 6958

34790

48698

0 5-25

254

for some time from 1st to 7th from
low constant water, alternating

No. 12. 2 seeds black but
black black throughout
12 covering 3/4 the
juice brown

152 and 4-5
- from 151

high to be much needed industry.

no construction want, although

X

1.4

1.8

2.2

2.5

Hd 2.5 black on hd D on back hd. only
1 lateral spot (ant) and that small
black on eye & base of the feet good

Hd 1.8 concealed when hd retracted, post
lateral spot present but very faint

Hd 1.4 black reduced except on eye; lateral
spots almost absent. Hd 2.2 black on

hd large. Spots on body only moderate
As compared to 5C first annulet is divided
the black spots on annulet rather than
between and there are no points.

Can curl just like *Cornus* sp. Sometimes the white
flown become slightly wavy but never near like
the *Cornus*. Hd only slightly prominent

Hd 2.2 last stage shiny dull honey yellow, finely sha-
greenish, no marks, eye black. Body nearly 7-ann-
ulate, very shiny honey greenish, no marks
& no flown except spiracles dark and crests

flown shades in the folds. Thorax & legs, 3 real
a faint darker phoebe. Went in the ground.
Another shed 1.8 now become

many on hazel in Catlandt Peats N.Y.
May 28 1896 Same. Many a little enlarged
and dark from large crop; abd scarcely
thinning, but slightly smaller post. Curds
but usually are straight. Solitary
2 went into ultimate 5 F stage May 30

Flat on venter or curled spirally solitary
on hazel (*Corylus*) Plattburgh June 9 1895

Hd faintly testaceous, a diffused black
patch on venter behind; eye a black
spot. W. 1.2 mm. Black spot reaches well
down on side but whole face pale; trace
of flown. Dorsum gray to spiracles ^{uniform} ~~dark~~
centrally d. on abdomen nearly white.
S-V white, a gentle flown, feet color-
less. This a little larger than body; legs
6-annulate. 2 ant & anal lapp white.

No points on body and no spots

Molt for ground June 16. Hd pale, pale silvery gray over
venter; body greatly 6-annulate shining, dorsum
pale greenish silvery gray, brownish 12-13, S-V
and legs wax yellowish, the feet clean
shape as before. Folds above blackish tan.
brown in oblique light. Spiracles dark.

Und Apr 1 1896 ♂
Und Apr 3 1897 ♀

[cf 3L] ^{sp near H. mac-}
attatus (near 5)
in *Pocillostoma*

Cut June 24 1895 Taxorus albidospinus just
 more on Memmida in Conlands Park May 28 1896. Hb. 8
 Later = 5G but head patches only behind eye 5GA

X 5G

Stenopogon? on a fern Onoclea sensibilis at
Rouses Point, N.Y., June 13 1895. Hb. 8
 brownish a large black patch on vertex
 connects with a like one on clypeus; another
 patch is apex on eye reaching back to
 occiput; these 3 patches have rather diffuse
 edges and the vertical, lateral ones are
 connected by a dark cloud; mouth horn ± 1.2
 feet 6-13. Seps 7-annulate, rather unequal
 annulet 2 large; slightly shiny, smooth
 & spinules dark green, under the lens
 obscurely longitudinally streaked and
 divided by the pale d. vesal esp. on
 thorax; on 13 a large round smoky black
 patch laterally. 2 and 15-v region
 feet translucent whitish, the feet black
 abraded spinules black, back all line
 white. Pale d. vesal may be reddish
 tinted on the thorax. [5G] June 15 came rather
 brownish and shiny. and others came
 from in wood

5GA

taken for 5G on Memmida? in Conlands Park
 May 28 1896. Boudin wood June 2

Hb. 8 dark brown shiny uniform eye black
 shiny dorsal greenish, anal end blackish
 from feet, feet 6-13, mostly 7-annulate.
 Not rather irregularly, no cracks except
 slight black cracks on tho. feet
 Hb. 11 pale yellowish, a trace of brownish
 from anal end, a very small
 brown dot in apex of Δ & above behind eye
 eye in a black spot. Body corded very
 green from food, anal end dark.
 7-annulate annulet 112 rather longest
 in number except small black spi-
 cles and black on claws of tho. feet
 Antennae palpi, jaws blackish
 Hb. 1.5 $\pm$ (Hb. May 31) 4 pale brownish; a big
 black patch behind eye. Body, ventral
 wrinkles except a large black sd patch
 on 13 and a small flap. free from food,
 faintly yellowish, paler 5G. no vertical
 patch on head. Later = 5G except head patches

Patch on vertex, clypeus, eye

vertex & Δ joined - - - 5G

vertex & Δ separate - - - 5GC

Patch on vertex faint, double

5GE

Patch on vertex absent - 5GF

Patch in Δ absent; only one by eye

5GA

[Band P n. 8]

... a dark ... Patch on ...
 ... to occiput ... = 3R? with small patches.

Out for
more on
later = 5C

Bored in wood June 2
4 images June 10 1896 T. dubita

5GC just like 5G but from
Fnt Lee W. J. June 10 1896. Patch
on head not quite connected
with one in Δ. Venter Δ eye

Strongylo
Roses
brownish

connects 5GD (Hd 3/4" long black, but color from
pale, from dark) Hd 1.2 pale testaceous
Δ patch eye black. Body without markings
occiput all got more spotted on shading = GC, E or F

edges a 5GE spot in Δ and eye black.
that on vertex brown, faded, greenish
connects Body same Venter Δ eye

not 6-13 5GE Patch behind eye and in Δ. Same as above

antennae 2 large
d to spiracles
occasionally long
divided by 1
images on 13
patch lateral
fat transverse
marked. Spir
white. Pale d

traced on the surface of right and other arms.
Bored in wood

Calc	.62	.82	1.1	1.46	ratio .75
Found	.6	.8	1.0-1.15	1.2±	

all shed 1.2 w/ black lateral patch. "G" some
ant patch on eye small & diffuse. "A" .6 all
brownish black. Hd 1.0 pale brown, patch on eye last
well on on Δ and cloud at vertex. Body
uniform whitish with green tinge, al. canal
brown green, but no marks. Spiracles black
B 8 all brownish black; body uniform, paler
Hd 8 " Hd 1.0" on June 14. all shed June 15. 2De

black and spot
like what sh hd 1.0, other hd 1.15, 1.0+ (sh. 8, 8+)
June 17 5C 2De 5G
June 16. no black
another (3) on (Camunda claytonia)
small spots (2 ant) $(5GB) = 3R * qv(?)$

with Aspidium spinulosum on yellow
highlands: 2H. Hd 1.2 with all the black
patches; body green dorsally, o-v region pale
bluish, marked with obscure yellowish blotches
low the spiracles; legs 7 annulate, spotted
irregular, the feet & spiracles black marked
as from 5G in absence of black anal
patches & in presence of yellow s-v shadow.
anal vessel a dark shade. Patch on eye
not to occiput $Mold June 16 = 3R?$ with anal patches.

5GPH or 4C wrap
7.5% per mm
(1.1 per 1/2)

~~Parasitoid~~ = *Nematus affinis* (Vernatell)

Hd. 8 shaded with bluish
esp. gutters & D. Body
all shiny greenish
marked brown line
on the feet.

Another, sd & s-v black
shades distinct. sd separated
on hd. of shade at apex of
each lobe, s-v run back
into body. Hd 1.7±

On grass Jefferson Highlands, N.H., June 15, 1895
Feet 6-11 (none on 13) segs 6-annulate last
2 annulate small & white-folded, ~~on 2^d & 4th~~
Hd pale greenish with a bright
testaceous tint by transp., eye black, jaws
brown; w.s. 8 mm Body pale green with a
distinct streak, rather broad white
streak line 5-12 last foot in a whitish
shade which covers 12-13, edges of dorsal
scales form a distinct white geminate
line 3-11 (pulsating) last in the white
tint foot. A blackish-green sd band on
thorax only diffuse foot. & a similar one
s-v (thorax only). Tubercles small, on column
& obscure, setae rudimentary, dense in 2
trans. rows per seg, and thickly on s-v fold
abd feet green, distinct tho. clear, from tip.
Body distinctly 14 segs. last legs wanting but
a slight elevation. Another hd 1.3± thorax black
shades very obscure

Oct March 29 1896

More sd swept in grass of L.H. Jentel, Green -
Lake N.J. June 21 1896

Other Washington D.C. on willows
mostly free from May 12 1898

5-I

X

Very like 3M but on willows Jefferson Highlands
N.H., June 15 1895. Solitary edge eater, eating
whole leaf; hds 1.0 pale faintly greenish, brown
dotted, a brown band up from eye nearly
to vertex & brown clippers, a black dotted
shade border central suture & spreads out
transversely above clippers, curving in the
direction of black eye. Body rather straight,
feet small 6-11; translucent leaf green
dorsal 6 annulate, edges of dorsal a
distinct geminate white line 4-12, on
13 a single ^{opercular} white line d, & a lateral
one, contracted against black face; anal
end crimson; basal line fine, white
tho. feet colorless

Another on black birch; brown marks on head
less developed, only slight. Hd 1.4 (5IA)

June 29 1895-

Published as 3M
(for plants)

Calc. .35 .46 .59 .77 1.0 nat. 77
 Found .35 .45 .6 8 1.0 1.0

Colt June 14 1896
 from Englewood, N.Y.

X colorless ventral ex-
 creta glands 6-11
 5-J

shiny not sticky, shys gregarious on back of
 smooth willow, Jeff Highlands N.Y. June 16
 Eat lower parenchyma, leaving vein and
 very thin epidermis.

Hd. 1.0-rounder, pale testaceous tinged, almost
 colorless but a broad deep black band runs
 transversely across cheeks over the eyes & turn
 up just to vertex becoming smoky, mouth brown
 feet 6-11, none on 12 and scarcely a trace on 13
 yd. larvae rest flat on venter. Thorax a little
 enlarged abd. gently tapered, smallest post.
 obscurely granulate, 1st annulet very broad
 pale whitish tinged with yellow, transverse
 the al. canal shining green; on abd. a large
 (5-11) more elevated black patch spiracularly
 and another above base of foot a little ant.
 On 12 the spots are smaller, absent on 13.
 On thorax a small lateral spot & a large
 one above base of leg. Body shiny. Tracheae

Egg slit under lower epidermis
 center of leaf, close together, as dried form
 irregular placed minute hollow ridges
 elliptical when fresh 1 x .5 mm.
 9 Same
 1st feet short, colorless, 13 immaculate

indent where not obscured by these large
 brown very black spots. The feet brown
 Hd. 8 (pale parts brownish shaded). Same
 Hd. 6 (black more diffuse. Black on head very
 small but the elevation present: thorax
 elongated, fluted; whitish al. canal shining
 often in spots reddish. Small ones (Hd 5)
 have hd. much more brownish. Larvae appear
 somewhat sticky but are not shiny.
 Stds. 6; also about 45 same or nearly
 all brown. None seen smaller.]

Englewood Hd pale more dusky shaded, a band
 over eye & streak on vertex. Body whitish the
 black marks supplemented by a series of black
 streaks on the annulets diffuse up over dorsum
 Body scarcely shiny, no sticky appearance
 feet clear. Another Hd. 8 (sh. hd. 8)

Fall dead May 26 1896 except 1 ichneumon. Elliptical brown
 worms, rather thin: at surface of ground. 6 x 2 mm.
 More on willow Englewood N.Y. June 7 1896 Hds 45 pale with
 black shade across top of each side nearly to vertex. Sides
 colorless shiny fluted, feet green; tail up often sides
 brown bulging, dusky spotted. The feet dusky
 36 hds. 35 all blackish brown - skin white

together in *Anisotoma canadensis* June 26. A
 all green, dusky brown dotted, eye black, Red feet
 anal 3 annulate s-v a little yellowish blotch
 black s-v shade 2-4 in spots same two feet. The
 feet clear at tip s-v ridge fluted, glaucous small.
 anal fringe brown 5-Kish subanal anal green
 dorsal line distinct spiracles dark. no marks.

little edge eaten on *Prunus pennsylvanica*
 Jefferson Highlands N.H., June 16 1895-
 along a serpentine slit from edge
 slit pyriform under lower
 pedicels. Lash body.

H 4 ± pale greenish testaceous eye black
 Red segments well marked micaceous more
 in front than behind, faintly 3-annulate
 translucent with a greenish tinge, al.
 anal. showing. The feet large, colorless
 with black shades at their bases; abd
 very small. 6-11, 13, colorless; 13 slightly
 bulging with very small anal prongs.

June 27 H 6 Same! head green
 29 H 75 all leaf green, blackish shades at base
 of feet, eye black mouth brown Large anal
 prongs green (a smaller one approximate subanal
 line. 13 a black elong. 5-13 a series of small colorless
 irregular lateral glands. abd. feet rudimentary
 June 22 H 1.15 green, a little brownish at vertex eye black
 mouth brown. Red head green, shining, 3-annulate
 feet. The feet clear, blackish cloud at base. abd
 rudimentary. Anal prongs 6, small pair and 1 plate. Very
 lateral pair reddish brown, small subanal pair. Late
 clouds s-s post. s-v ridge distinct. Head line line.

June 28 H 1.4 (Sh. H 1.0 ±)

* *Hyloponax* "can of retention yellow sides

Head black or red.

X On back; head red - - - V

X On venter; a pale sd line - - - 20

X On wing cheery; yellow - - - S

On *Cypripus* etc; spot blue black - - - Y

X On oak; spots very pale - - - 2B OUT

Head pale with venter dark band

On birch; pale yellow sd band - - - 2L OUT

On *Cypripus* *sumatrensis* var. *viridula* - - - N

lighter in American *canadensis* June 26. A
all green, dull, brown dotted, eye black, Red go
mouth 3-annulate s-v a little yellowish
black s-v shade 2-4 in spots - base thin feet
near clear at tip s-v ridge fluted, glands on
aural fringe, brown 5-13, subaural line
medial line distinct, spiracles dark, no marks.

little edge eater on *Prunus pennsylv*

offering Highlands N.H., June 16

along a serpentine slit from a

slit pyriform under flow.

pedicels. Lash body.

4.4 ± pale greenish testace

red segments well marked

in front than behind,

translucent with a ge

anal. showing. Tho

with black band

very small, 6-11, 1?

bulging with vein

Ex 67 Hd. 6 Same, here

Ex 19 Hd. 75 All leaf green, green

all feet, eye black, mouth brown

wings green (a smaller one approx

in. 13 a little larger) 5-13 a series of small

very light lateral glands, all feet rudimentary

Ex 22 Hd. 1.15 green, a little brownish at vertex eye black

mouth brown. Red leaf green, shiny, 3-annulate

all feet, the feet clear, whitish, clear at base, all

rudimentary. Aural fringe, small pair and 1 pair, large

ate pair reddish tinted, small subaural pair. Lateral

glands s-s post. s-v ridge distinct. Medial line fine. S

ad 1.4 (sh. ad 1.0 ±)

on fine cherry
eggs

26 1896 Bug ap

reticulate yellow corn

ad a thin brown

lined by a whitish ring

resembling 2 of the

very far asile

ad.

2 up

other

all put 2

July 96

